

INSTALLATION INSTRUCTIONS

BUILT-IN BOTTOM MOUNT REFRIGERATOR

VIKING RANGE CORPORATION
111 Front Street
Greenwood, Mississippi (MS) 38930 USA
(601) 455-1200



IMPORTANT - PLEASE READ AND FOLLOW

Make sure that incoming voltage is the same as unit rating. An electric rating plate specifying voltage, hertz, wattage, amps, and phase is attached to the product.

To reduce the risk of fire, electric shock, or injury to persons, installation work and electrical wiring must be done by qualified people in accordance with all applicable codes and standards, including fire-rated construction.

GENERAL INFORMATION

WARNING

EXCESSIVE WEIGHT HAZARD

Use two or more people to move and install refrigerator.
Failure to follow this instruction can result in back or other injury.

Most of the refrigerator's weight is at the top. Extra care is needed when moving the refrigerator to prevent tipping. Keep cardboard shipping piece or plywood under refrigerator until it is installed in the operating position.

It is your responsibility to :

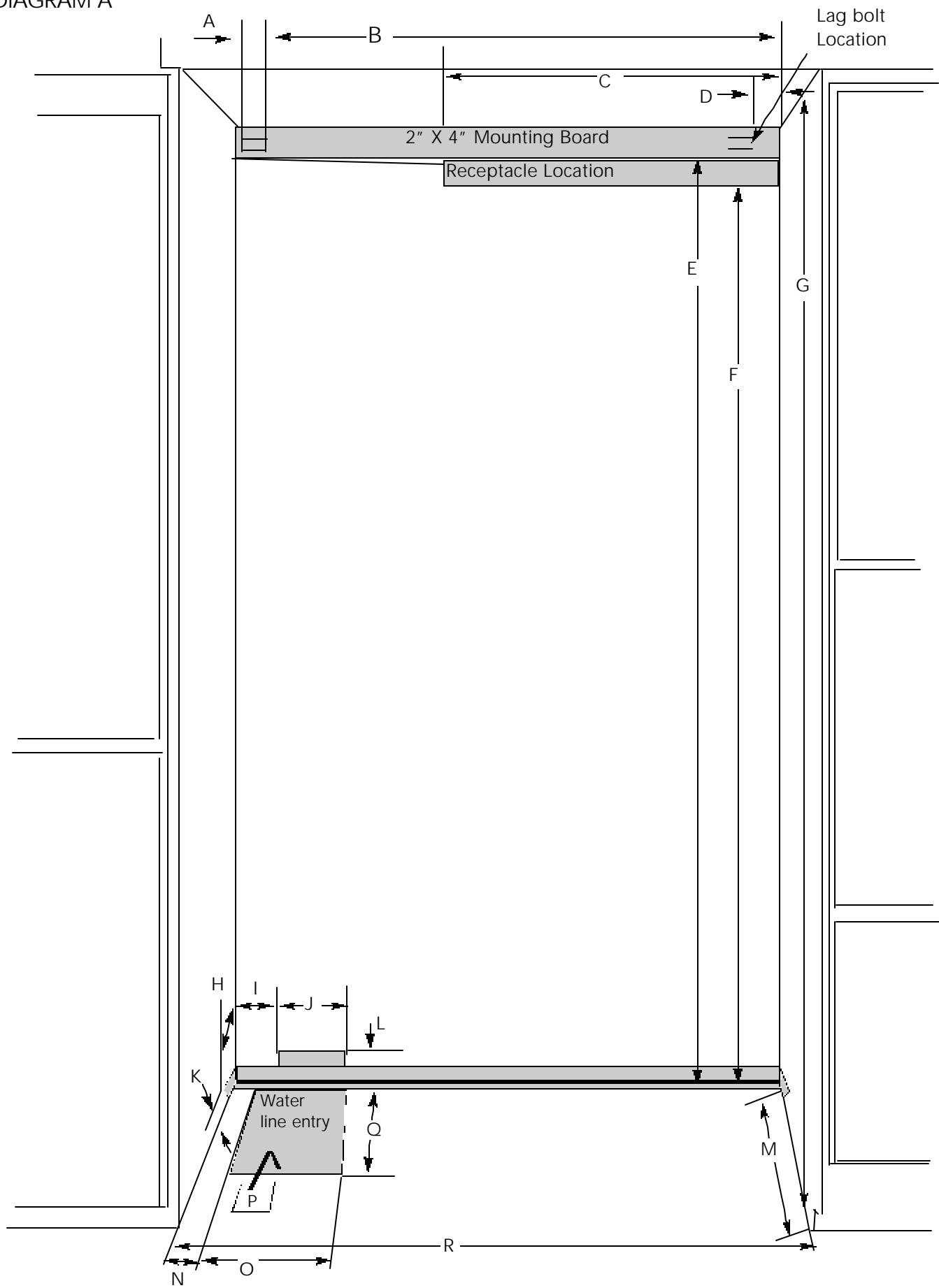
- comply with installation specifications and dimensions
- properly install refrigerator
- make sure that you have these materials which are necessary for proper installation:
 - 1/4" (6 mm) copper tubing with shutoff valve
 - 1/4" (6mm) compression fitting
- assure that floor will support refrigerator (more than 600 lbs. [272 kg.]), door panels and contents
- provide a properly grounded electrical outlet
- assure that location will permit appliance doors to open 90° minimum

CUTOUT DIMENSIONS


Diagram A	Description	Dimension
A	Width of lag bolt location	1" (2.54 cm)
B	Distance from right side of cutout to left lag bolt location	32 9/16" (82.7 cm)
C	Width of receptacle location	27 1/2" (69.9 cm)
D	Distance from right side of cutout to right lag bolt location	3 3/8" 8.6 cm)
E	Height to top of receptacle location and bottom of 2" x 4" (5.1 cm x 10.2 cm) mounting board (including cover plate)	80 1/2" (204.5 cm)
F	Height to bottom of receptacle location (including cover plate)	75 1/8" (190.8 cm)
G	Height of cutout (min.)	84" (213.4 cm)
H	Depth of water line location on side wall	1" (2.54 cm)
I	Position of water line location on back wall	7 5/8" (19.4 cm)
J	Width of water line location on back wall	6 3/4" (17.1 cm)
K	Height of water line location on side wall	5/8" (1.6 cm)
L	Height of water line location on back wall	3" (7.6 cm)
M	Depth of cutout (min.)	24" (61.0 cm)
N	Do not place water line in this location	3 5/8" (9.2 cm)
O	Width of water line location on floor	10 3/4" (27.3 cm)
P	Water valve location	See diagram
Q	Depth of water line location on floor	10 1/2" (26.7 cm)
R	Width of cutout (min.)	35 1/2" (90.2 cm)

Verify cutout depth is a minimum of 24" (61.0 cm) measuring from the rear of the cutout to the front. Minimum refrigerator height is 83 1/4" (211.5 cm) with refrigerator adjusted to its lowest position. Maximum refrigerator height is 84 1/4" (214.0 cm) with refrigerator adjusted to its tallest position. Customize the installation if cutout height is more than 84 1/4" (214.0 cm) and no cabinets are installed above the refrigerator. The electrical outlet must be installed from 75 1/8" (190.8 cm) to 80 1/2" (204.5 cm) high and 0" to 21 1/2" (54.6 cm) from right side of cutout when facing cutout.

DIAGRAM A



ELECTRICAL REQUIREMENTS

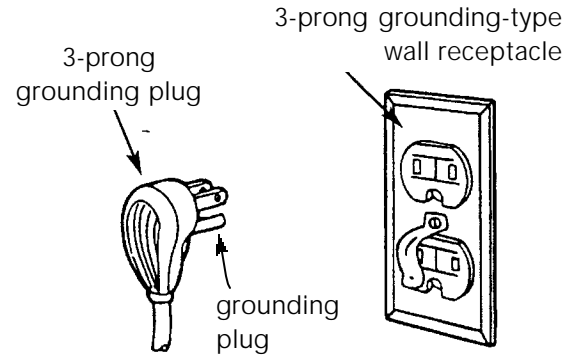
 WARNING	
ELECTRICAL SHOCK HAZARD Electrically ground refrigerator. Do Not use an extension cord. Failure to follow these instructions could result in death, fire, or electrical shock	

If codes permit a separate grounding wire is used, it is recommended that a qualified electrician determine that the grounding path is adequate. Do Not ground to a gas pipe. Check with a qualified electrician if you are not sure the appliance is properly grounded. Do Not have a fuse in the neutral or grounding circuit.


It is the customer's responsibility:

To contact a qualified electrical installer.

To assure that the electrical installation is adequate and in conformance with the National Electrical Code, ANSI/NFPA 70-latest edition or Canadian Electrical Code C22.1-1982 and C22.2 No. 01982 (or latest edition), and all local codes and ordinances. 120 volt, 60-Hz, 15 amp, fused, electrical supply is required. It is recommended that a separate circuit serving only this appliance be provided. This appliance is equipped with a power supply cord having a 3-prong grounding plug. To minimize possible shock hazard, the cord must be plugged into a mating 3-prong, grounding-type wall receptacle.



WATER SUPPLY REQUIREMENTS

 WARNING	
ELECTRICAL SHOCK HAZARD Some water may remain in line. Electric drill must be grounded to prevent severe or lethal shock if water is in line and enters drill during use.	

Use only 1/4" (6 mm) copper tubing for water line. Do Not install copper tubing in area where temperatures drop below 32 °F (0°C). Before attaching copper tubing to refrigerator, flush at least 2 quarts (1.9 L) of water through the copper tubing and into a bucket to get rid of any particles in the water line.

To calculate length of 1/4" (6mm) O.D. copper tubing needed:

1. Locate a vertical 1/2" (1.2 cm) to 1 1/4" (3.2 cm) COLD water line near refrigerator area. A horizontal COLD water line can be used if directions in Step 4 are carefully followed.
2. Measure distance from cold water line to refrigerator. Add 24" (61 cm) to this measurement.

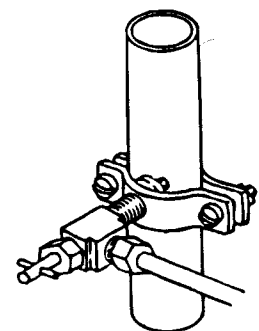
To rough in water line:

3. Turn OFF main water supply. Turn ON nearest faucet long enough to clear line of water.
4. Vertical cold water line: Use grounded electric drill or hand drill to drill 3/16" (4.5 cm) hole in an accessible location in water line.

Horizontal cold water line: Use grounded electric drill or hand drill to drill 3/16" (4.5 cm) hole in the top of the water line. This will keep sediment from collecting in valve.

5. Position washer over hole in water line. Turn saddle valve handle clockwise to expose piercing lance a maximum of 3/16" (4.5 cm). Align piercing lance over hole in water line. Place both halves of saddle valve bracket against water line. Turn saddle valve handle clockwise until piercing lance enters hole in water line and is firmly seated. The saddle valve is now in the closed position. Tighten packing nut. Evenly and firmly tighten bracket screws so washer will make a water-tight connection. Do not overtighten screws; copper tubing could be crushed.

6. Check that both ends of copper tubing are cut square. Slide compression nut and sleeve onto copper tubing. Insert end of copper tubing completely into valve outlet. Tighten compression nut to outlet with adjustable wrench. Do not overtighten.
7. Turn on main water supply. Check for leaks. Turn saddle valve counterclockwise and run water through copper tubing into a bucket. Turn saddle valve handle clockwise to shut off water to copper tubing.
8. Route copper tubing into refrigerator area.



REFRIGERATOR INSTALLATION

WARNING

EXCESSIVE WEIGHT HAZARD

Use two or more people to move and install refrigerator. Failure to follow this instruction can result in back or other injury.

Most of the refrigerator's weight is at the top. Extra care is needed when moving the refrigerator to prevent tipping. Do Not lower the refrigerator against the shipping base when moving the shipping base. Do Not remove protective film until refrigerator is in operating position. All four leveling legs must contact the floor to support and stabilize the full weight.

The two 2" x 4" (5.1 cm x 10.2 cm) mounting boards, for securing refrigerator to wall are attached to top rear of refrigerator. Save cardboard to protect walls when installing refrigerator.

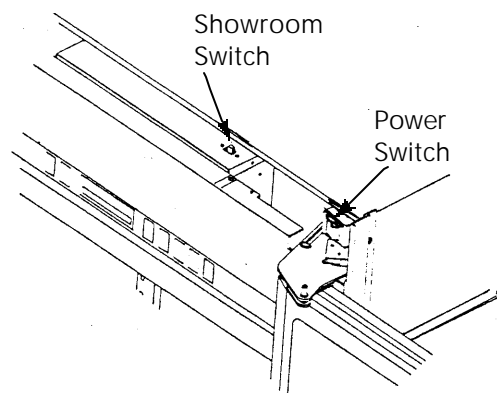
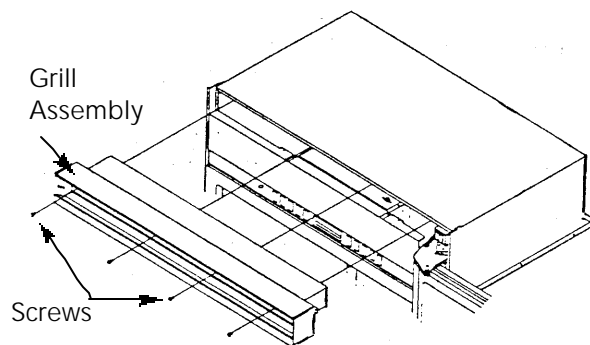
1. Remove top and bottom strap.
2. Remove top cap.
3. Cut along dashes on carton rear with a utility knife extended 1/4" (.6 cm).
4. Remove carton, exterior packaging, and tape from lag screws. Do not remove nylon cord from power cord.
5. Remove shipping brackets from skid by removing 4 bolts with a 7/16" socket head screwdriver.
 - Tilting refrigerator is not required to remove shipping brackets.
6. Strap refrigerator on cart. To prevent doors from opening, tilt refrigerator to handle side. Remove refrigerator from skid.
7. To avoid floor damage, use protective material.

Securing the refrigerator

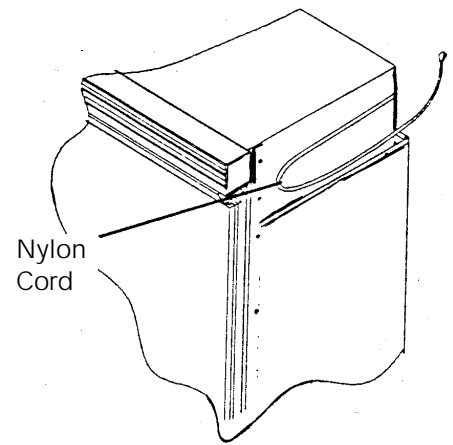
1. Locate and mark 2 wall studs to mount the first 2" x 4" (5.1 cm x 10.2 cm) board. See Diagram A on page 3. Do not cover the electrical outlet.
2. Remove the mounting board from top rear of refrigerator. Locate and predrill 1/4" (.6 cm) holes in the mounting board. Countersink the bolt heads into the 2" x 4" (5.1 cm x 10.2 cm) board using a wood bit. Bolt securely to wall studs. Predrill 1/4" (.6 cm) holes in second 2" x 4" (5.1 cm x 10.2 cm) and countersink bolt heads. Attach flush to first 2" x 4" (5.1 cm x 10.2 cm). If application does not have studs, such as a framed wall mount to the wall not surface, use a minimum 1/4" (.6 cm) diameter fasteners (not supplied). If cabinets are deeper than 24", mounting board must be shimmed and structurally secured to the mounting board. Longer bolts are required to shim mounting board.
3. To avoid water line damage, verify water line is secure so refrigerator does not run over the water line.
4. Repair any loose flooring in cutout.
5. Tape door and drawer shut with masking tape.

Before moving the refrigerator in place, confirm the finished dimensions, electrical and plumbing locations, and minimum door and drawer clearances are accurate.

6. Position refrigerator in front of cutout.
7. Remove top grill assembly by lifting in the center of the assembly.
8. Verify operation by plugging power cord. Power switch will be shipped in the ON position and showroom switch will be in the OFF position. Display should flash. Press any key. There is a 6 minute delay before the refrigerator starts. Verify the position of each switch if there is no power to refrigerator.

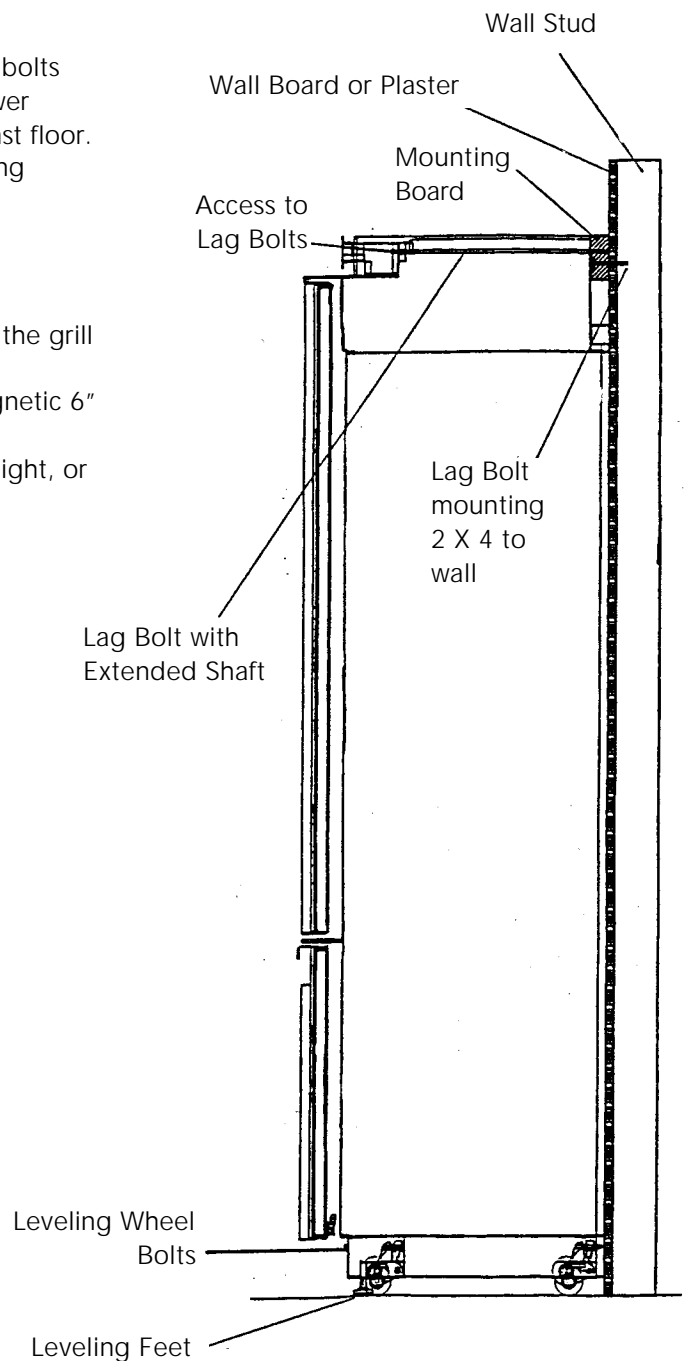
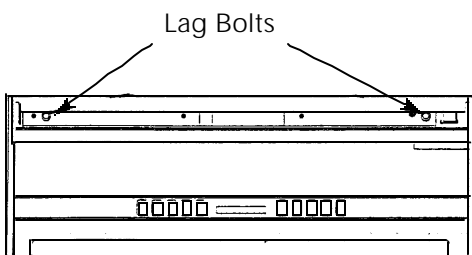


9. Pull end of nylon cord around refrigerator side level with top of refrigerator door. Tape cord in place.
10. Roll refrigerator into cutout to within 3" (7.6 cm) of being flush with kitchen cabinets. To avoid kitchen cabinet damage, place cardboard between kitchen cabinets and refrigerator. Push cardboard back with refrigerator and remove cardboard when refrigerator is in place. Remove power cord slack by pulling nylon cord straight out while pushing refrigerator completely into place. Power and nylon cords will rest along refrigerator side.



11. Level refrigerator by turning front and rear leveling wheel bolts clockwise to raise refrigerator and counterclockwise to lower refrigerator. Rotate leveling feet until firmly in place against floor.
12. Align refrigerator with sides of kitchen cabinets by adjusting leveling wheels.

13. Remove the 8 screws holding the grill assembly. Remove the grill assembly and set aside.
14. Screw lag bolts securely into mounting board using a magnetic 6" extension socket. See Diagram A on page 3.
15. Push extra nylon cord in along side of refrigerator out of sight, or cord can be flush refrigerator.
16. Replace the grill assembly.



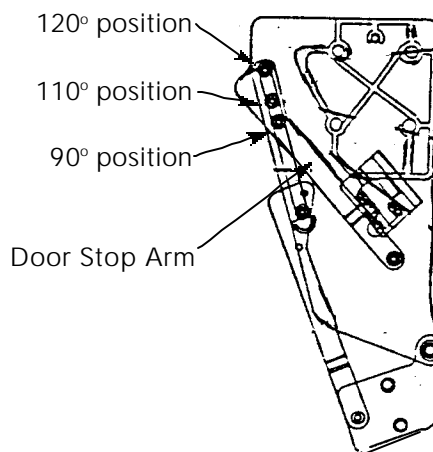
WATER CONNECTION

The garden hose fitting, compression nut, and sleeve are located in the literature packet. The water filtration system is shipped in the crisper drawer.

1. Flush air and impurities from water line by turning on water supply and running a pint or more of water into a bucket.
2. Remove plastic cap from water valve fitting. Slide copper tubing through brass nut, and brass sleeve. Connect brass nut on copper tubing to garden hose fitting. Connect garden hose fitting to water valve inlet port. Confirm copper tubing is secure by pulling on copper tubing.
3. Turn on water supply to refrigerator and check for leaks. Turn off water supply to refrigerator and correct any leaks. Repeat this process until no leaks exist. Completely turn on water supply to refrigerator.
4. Verify drain pan is installed and aligned.
 - Drain pan must be pushed past and over initial stopping point.
5. Replace lower access panel with the air vents positioned at the top. Kitchen flooring must allow the lower access panel to be removed.
6. After 24 hours checks for leaks. If unit is leaking, correct leaks. Repeat this process until no leaks are found.

DOOR STOP ADJUSTMENT

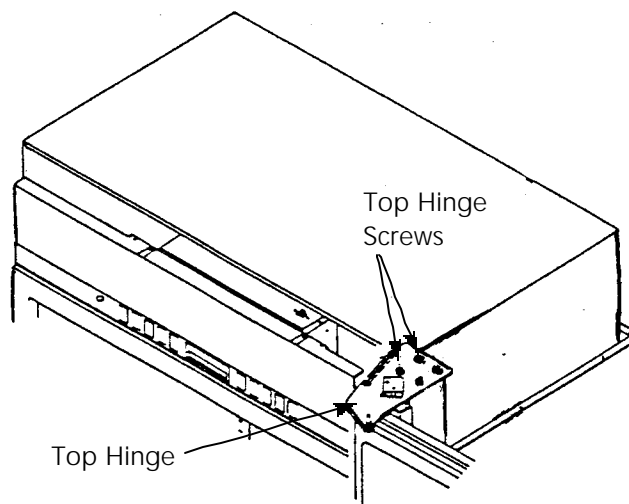
1. Remove center grill blade from the top air grill.
2. Remove top air grill by removing (4) 1/4" screws with a magnetic screw driver. Pull assembly forward.
3. Open refrigerator door so door stop arm and shoulder screw are accessible. Shoulder screws should be in 110° door opening position.
4. Remove shoulder screw and place shoulder screw in the 90° or 120° door opening position.



HINGE ADJUSTMENT

Verify proper door alignment. Only the top hinge is adjustable.

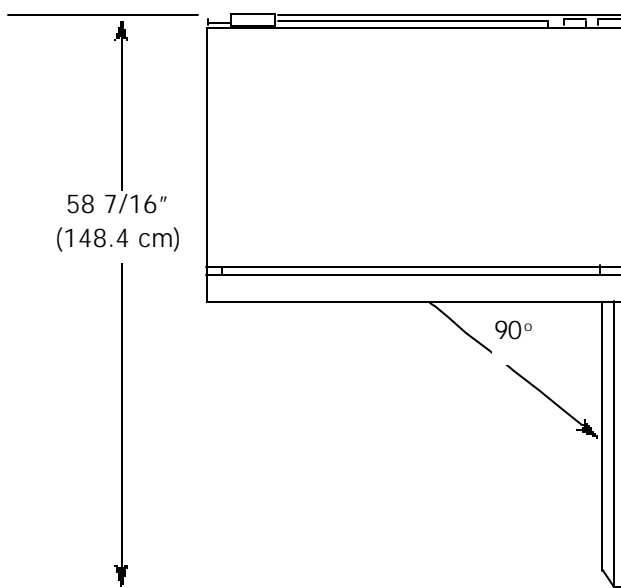
1. Remove the center grill blade from the top air grill.
2. Remove top air grill by removing (4) 1/4" screws with a magnetic screw driver. Pull assembly forward.
3. Loosen the (4) top hinge screws.
4. Align refrigerator door by lifting.
5. Tighten screws.



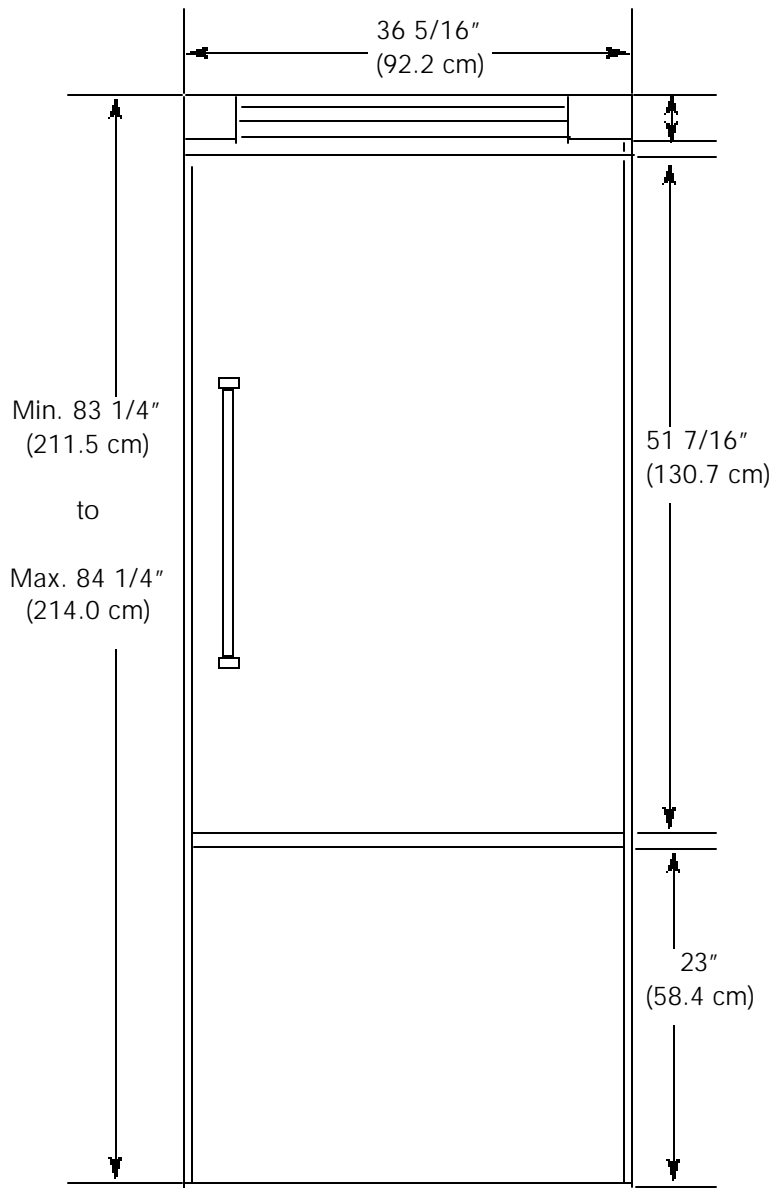
BASIC SPECIFICATIONS AND DIMENSIONS

DESCRIPTION	VCBB360
Overall Width	36 5/16" (92.2 cm)
Overall Height from Bottom	Min. 83 1/4" (211.5 cm) to Max. 84 1/4" (214.0 cm)
Overall Depth from Rear	<div>To side trim 22 3/16" (56.3 cm)</div> <div>To front of top grill 24 11/16" (62.7 cm)</div> <div>To end of handle bracket 27 1/4" (69.2 cm)</div>
Cutout Width	35 7/8" (91.1 cm)
Cutout Height	84" (213.4 cm)
Cutout Depth	24" (61.0 cm)
Electrical Requirements	120 volt, 60 Hz, 15 amp circuit; 3-wire cord with grounded 3-prong plug attached to product.
Maximum Amp Usage	8.2 amps
Inlet Water Requirements	1/4" copper tubing inlet waterline
Overall Interior Dimensions <ul style="list-style-type: none"> •Refrigerator •Freezer •Total Capacity 	<div>15.2 cu. ft.</div> <div>5.7 cu. ft.</div> <div>20.9 cu. ft.</div>
Approximate Shipping Weight	470 lbs. (211.5 kg)

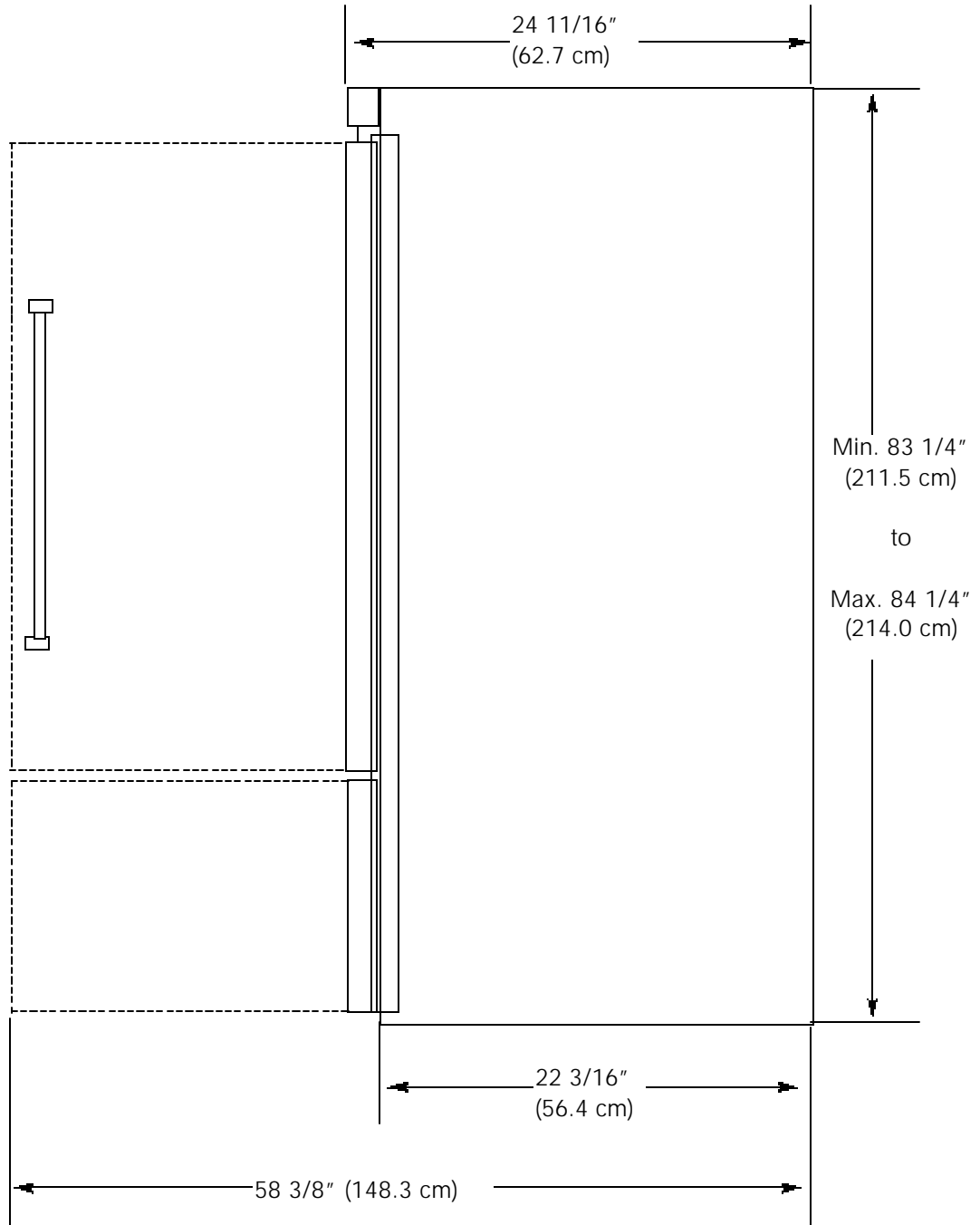
TOP VIEW



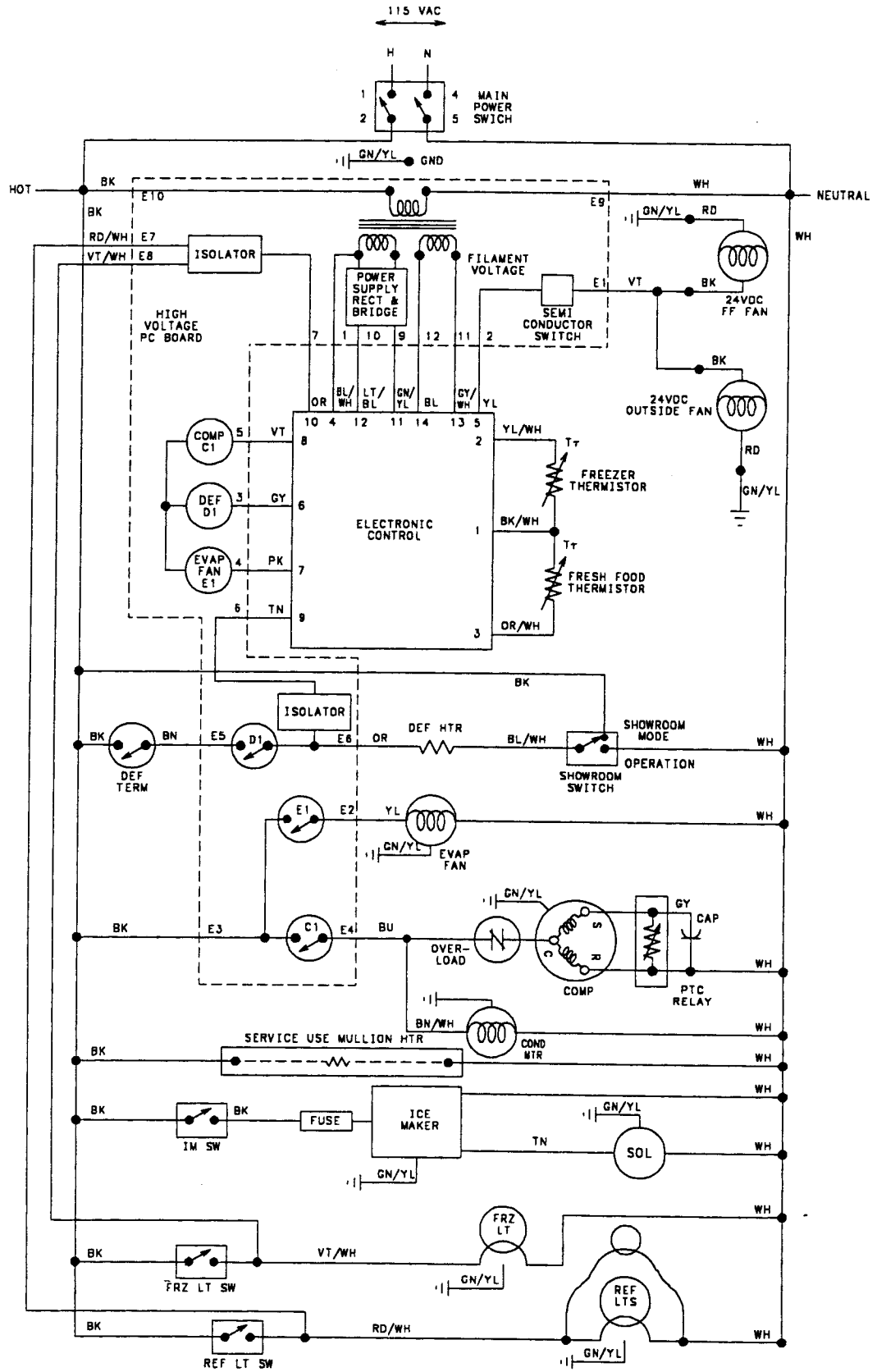
FRONT VIEW



SIDE VIEW



WIRING DIAGRAM BUILT-IN BOTTOM MOUNT REFRIGERATOR/FREEZER



WARNING:
ELECTRICAL
GROUNDING
INSTRUCTIONS
This appliance is
equipped with a
three prong
grounding plug for
your protection
against shock
hazard and should
be plugged
directly into a
properly grounded
three prong
receptacle. DO
NOT CUT OR
REMOVE THE
GROUNDING

REFER ONLY TO FEATURES WHICH ARE EQUIPPED WITH THIS UNIT.

Viking Range Corporation
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Specifications subject to change without notice